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PIEZOELECTRIC DEVICE FOR INJECTOR

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ABSTRACT OF THE DISCLOSURE

A piezoelectric device 1 for an injector, built into an injector and generating driving force of the injector,  
10 wherein a relation  $d(0.1Ec)/d(1.2Ec) \geq 0.50$  is established between an apparent piezoelectric constant  $d(1.2Ec)$  calculated from static elongation when an electric field of 1.2 Ec is applied to the piezoelectric device in the same direction as a polarizing direction  
15 while a preset load of 500 N is applied to the piezoelectric device, and an apparent piezoelectric constant  $d(0.1Ec)$  calculated from static elongation when an electric field of 0.1 Ec is applied to the piezoelectric device in the same direction as the  
20 polarizing direction. The piezoelectric device so fabricated has high durability and can be used for a long time. The piezoelectric device 1 is fabricated by alternately laminating a plurality of piezoelectric layers expanding and contracting in proportion to an  
25 applied voltage and a plurality of internal electrode layers for supplying the applied voltage, and the sectional shape of the piezoelectric device crossing at right angles the laminating direction is partially or wholly arcuate. The piezoelectric device 1 is  
30 accommodated in a cylindrical accommodation space.